

Schena, Cristeen

From: Beeler, Malcolm <BeelerM@wseinc.com>
Sent: Thursday, January 21, 2021 8:14 AM
To: Tisa, Kimberly; Trombly, Gary; Trahan, Amber
Cc: Miller, Michael; jmarsilio@fairfieldct.org; Shanahan, Meghan
Subject: Aggregate Pile Investigation - MW Installation
Attachments: Proposed Monitoring Well Locations.pdf; 1969 Aerial.pdf

The Former Aggregate Reclamation Yard Investigation Work Plan, Revised October 12, 2020, discussed the following concerning installation of additional groundwater monitoring wells at the site:

- 1) Six additional monitoring wells were to be installed around the perimeter of the site; and
- 2) A soil boring would be performed adjacent to MW-2 to determine if that monitoring well was installed in soil impacted by PCBs like that found at TP-4.

We have completed the soil borings discussed in the Work Plan and have reviewed boring information and analytical data and the following is noted:

- 1) Soil borings could not be advanced to planned depths at two of the planned MW locations on the southeast perimeter of the site (see the attached Proposed Monitoring Well Locations figure).
 - a. Large rocks are visible at the ground surface near these two proposed locations.
 - b. The 1969 aerial (see attached) shows that a perimeter dike was constructed around the south of the site before the remainder was reclaimed.
 - c. From our experience during the performance of soil borings and visual observations of materials at the ground surface, we suspect that large rock was used to construct the dike shown on the 1969 aerial and that monitoring wells cannot be installed at the proposed locations using a hollow-stem auger rig.
- 2) Analytical data from soil collected from a boring performed at a location adjacent to MW-2 did not find PCB concentrations like those encountered in soil at TP-4. In addition, other soil borings performed in the area of TP-4 did not find PCBs at the same concentrations in TP-4.

Based on these findings, the following modifications to monitoring well locations are proposed:

- 1) Monitoring wells will not be installed at the two locations indicated on the attached figure at this time. However, a monitoring well, designated as MW-7 on the attached figure, would be drilled at the location of TP-5. A review of the test pit log for TP-5 indicates that we will not encounter the rock found at the other two locations. Based upon anticipated groundwater flow and impacts to soil identified at the site in previous and the latest investigation, MW-7 should be sufficient to monitor impacts to groundwater.
- 2) We will mobilize a track-mounted hollow-stem auger rig to enter the stormwater retention basin and install a monitoring well at the location of TP-4.

Based on the soil data collected to date we believe that the proposed monitoring well locations will (1) measure groundwater impacts at the location of highest PCB concentrations determined in soil at the site and (2) provide a perimeter network sufficient to determine compliance with the SWPC.

Please let us know if you have any questions or comments on the proposed revision to the Work Plan.

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